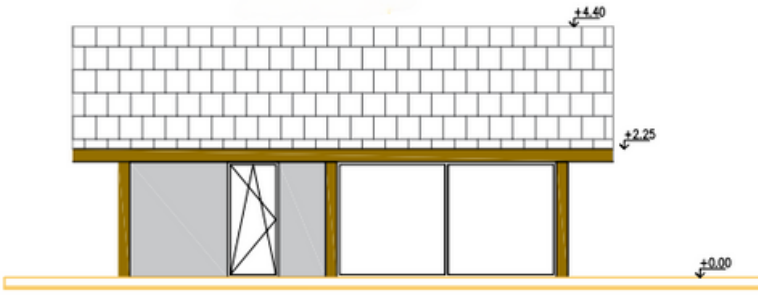
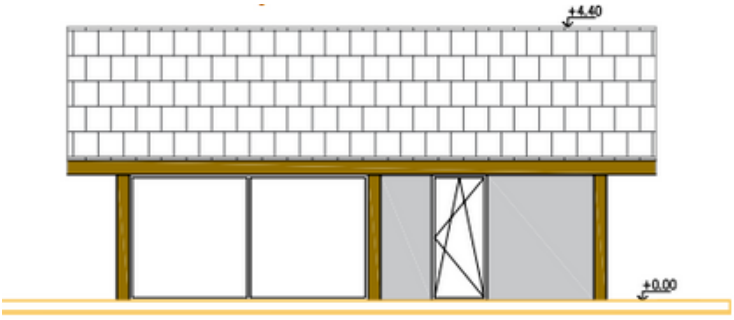
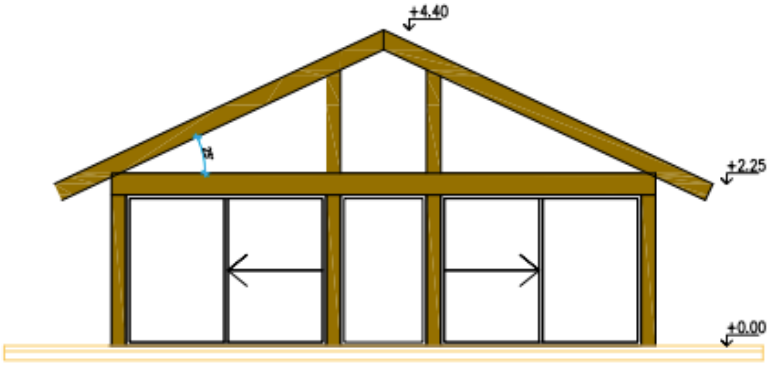
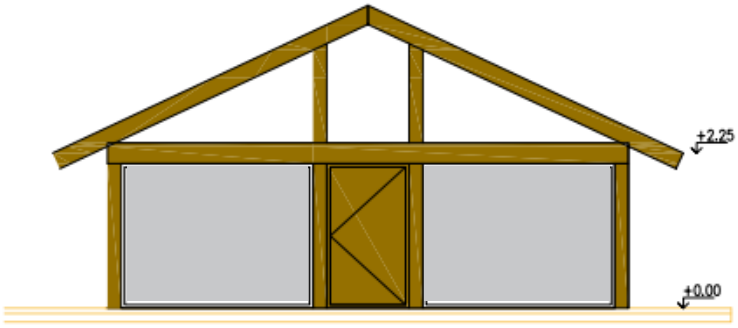
EXTERNAL



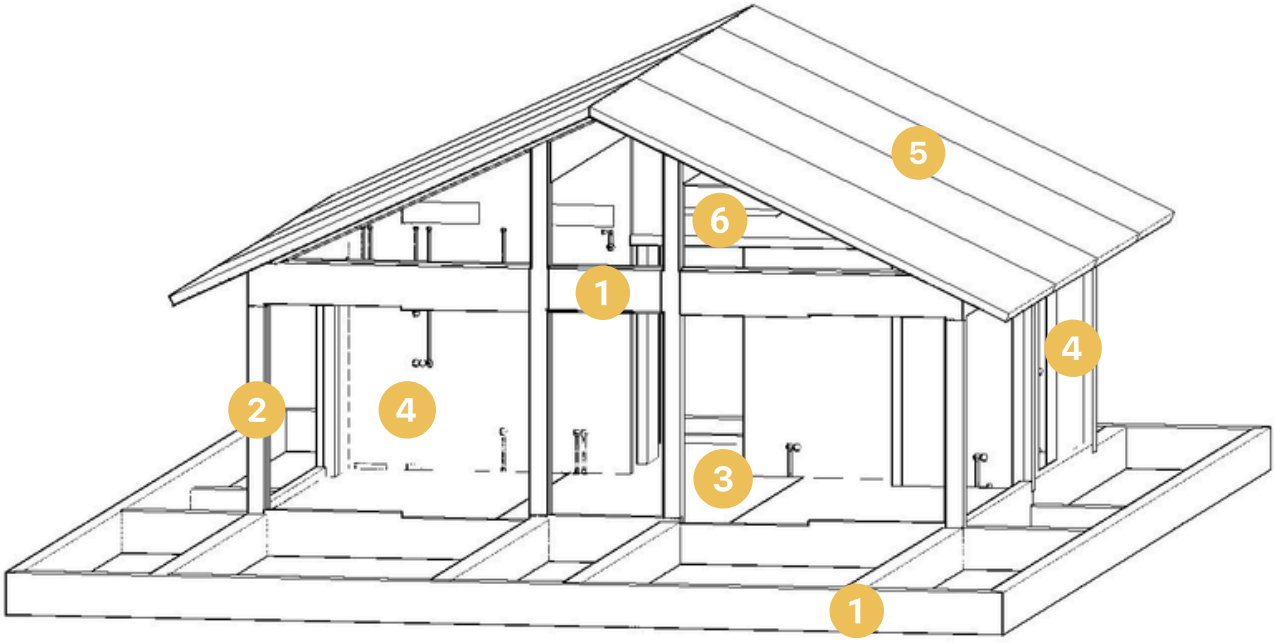






Height	4,4 m
Height from eaves	2,25 m

STRUCTURAL



1. Glulam beams (pile foundations)	Bearing structure (strength class GL28h)
2. Glulam posts	Bearing structure (strength class GL28h)
3. CLT floor panels	CLT panel (strenght class C24)
4. CLT wall panels	CLT panel (strenght class C24)
5. CLT roof panels	CLT panel (strenght class C24)
6. CLT intermediate loft ceiling panel	CLT panel (strenght class C24)
Structural parts' tolerance	CNC cut, maximum 1 mm
Oil finish	Sikkens or OSMO
Construction wood screws	8.2x190 wood screw ET-T tx40/CorrSeal/C4

OSMO dark brown finish
exterior and interor

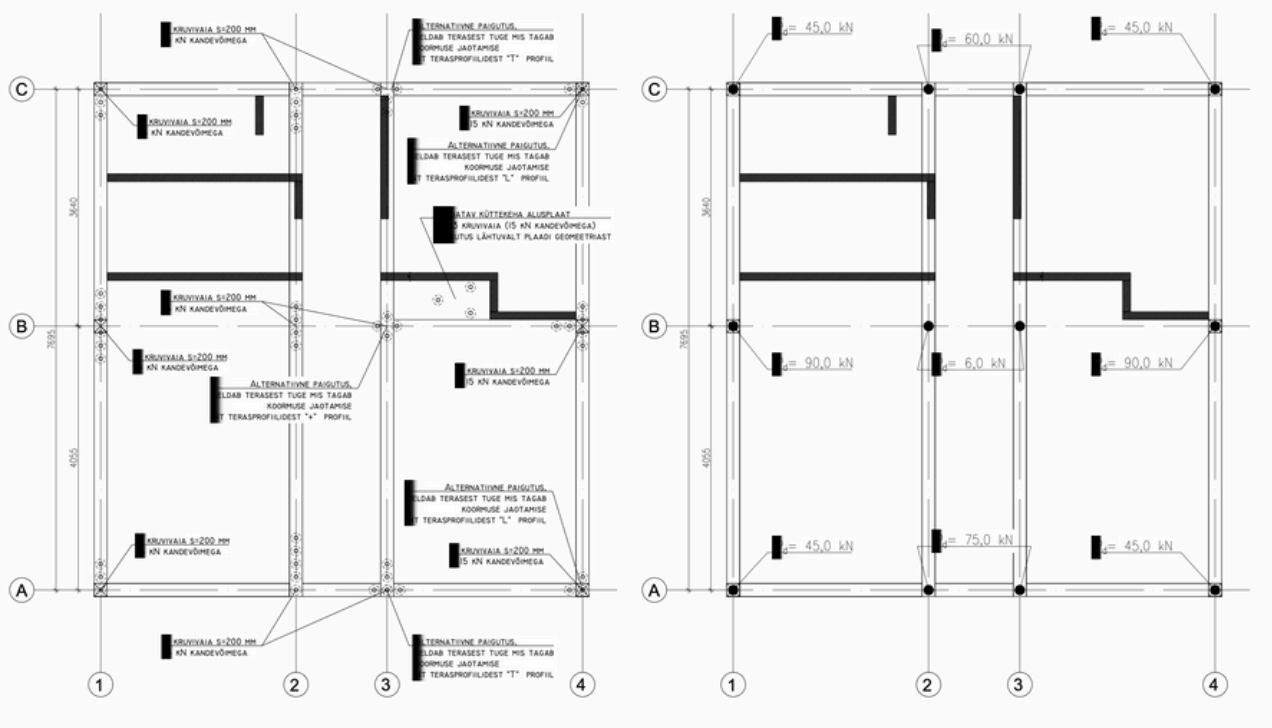
Sikkens light brown
exterior finish

Sikkens cream
CLT ceiling finish

PILE FOUNDATIONS

Screw piles

Micropiles



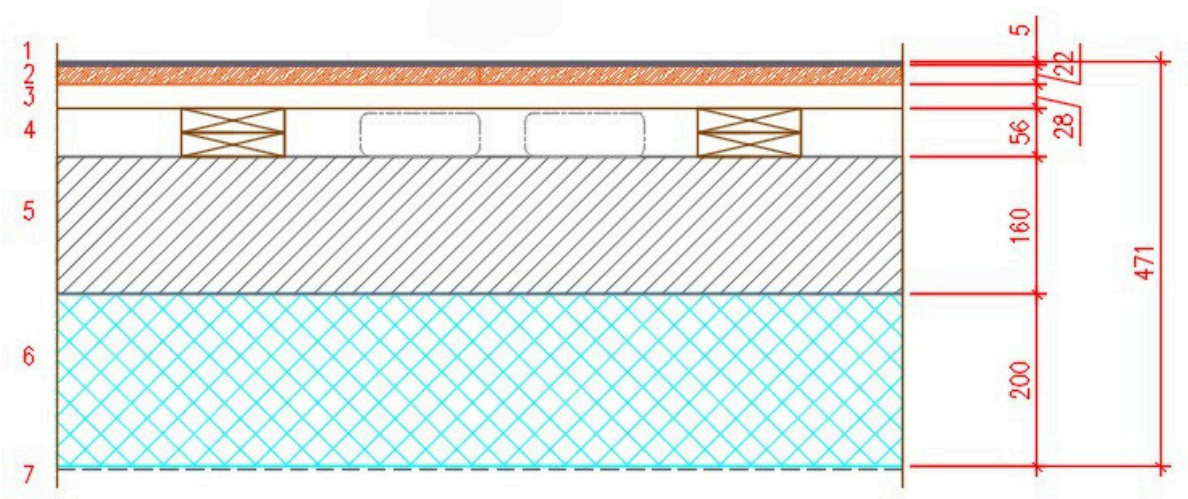
1. Screw pile foundation	Standard choice
2. Micropile foundation	Challenging ground conditions (rock, wet surface)

TERRACE

PS! ODYL House with pile foundation solution comes with a 71.6m2 terrace around the house! This is important for comfort as well as neat design.

FLOOR - PILE FOUNDATIONS

Thermal conductivity = 0.094 W/m²K



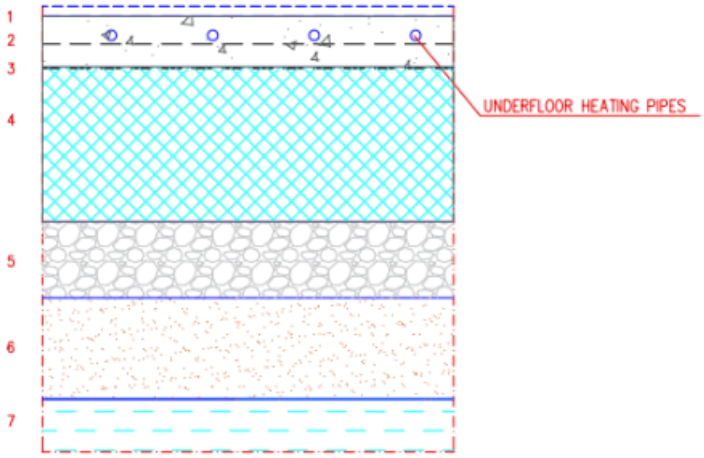
1. Flooring	Parquet according to interior design choice
2. OSB panels	22 mm
3. Horisontal groove	28 mm x 120 mm, S.400
4. Ventilation gap	Vertical planed timber 28 mm x 120 mm, S.600
5. CLT panel	160 mm (0.12 W/m²K)
6. PIR insulation	200 mm Kingspan Kooltherm K5
7. Rodent net	Protection against rodents

Rental house recommendation: LVT CLICK SPC Winclic (photo example)
Personal house: Any parquet chosen, dependent on interior design full solution

SLAB FOUNDATION

Alternative foundation type with floor heating

PS! Terrace is optional with slab foundation and can be added in any size.



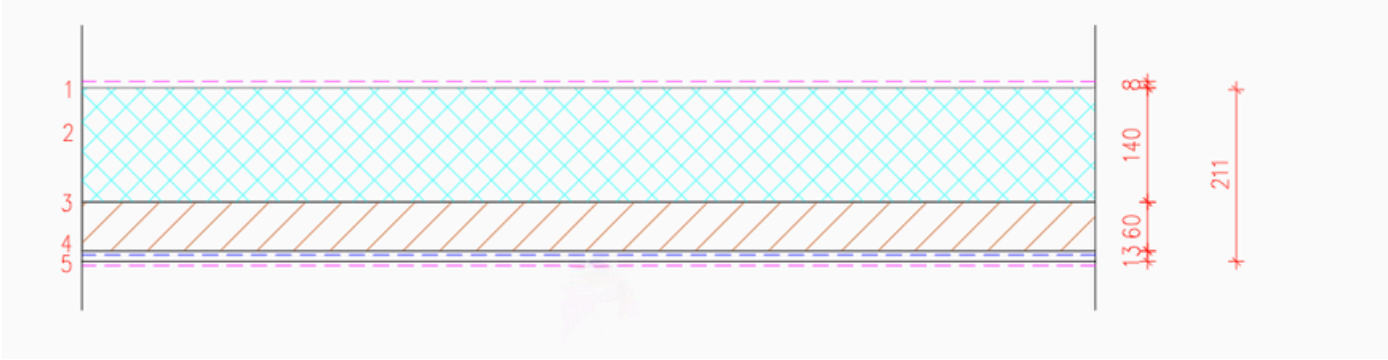
1. Parquet	14 mm, according to client's choice
2. Reinforced concrete slab C25/30	100 mm, factor 60.5, mesh 7/150-A500HW
3. Moisture insulation	Film 0.2 mm, joints tapped with overlay 200 mm
4. Insulation	300 mm EPS 100 (0.037 W/m²K)
5. Gravel substrate	200 mm
6. Sand filling layer	200 mm, if necessary, compaction degree 0.95
7. Existing subsoil	

Air - water floor heating
Alpha Innotec L6 Split A+++
Or chosen by the client

Plinth elements
Benders
Or chosen by the client

EXTERIOR WALLS

Thermal conductivity = 0.13 W/m²K

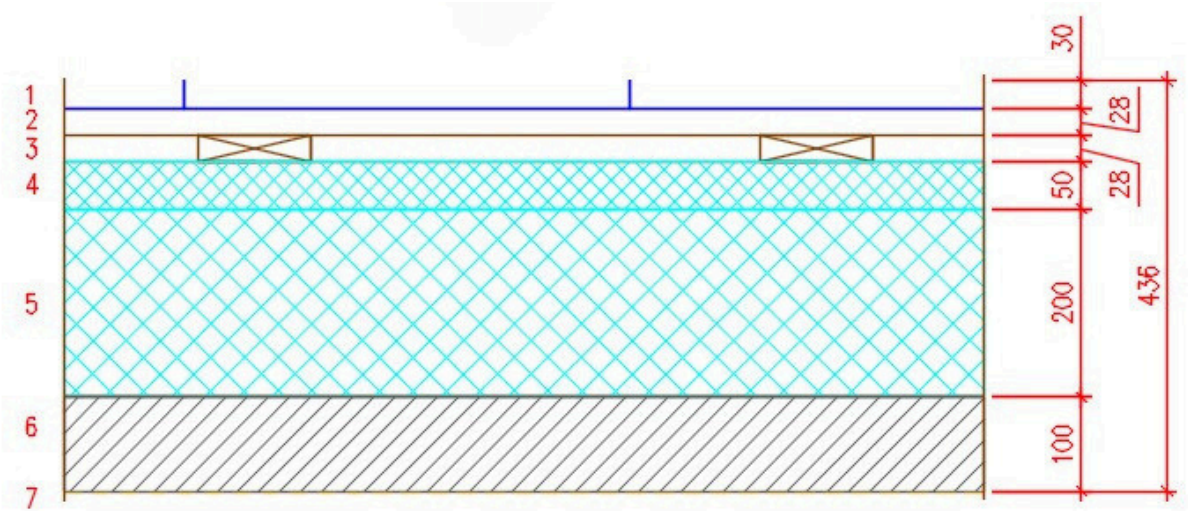


1. Facade plaster	Webertherm Plus Ultra SILS
2. PIR insulation	140 mm Kingspan Kooltherm K5 (0.021 W/m²K)
3. CLT panel	60 mm (0.12 W/m²K)
4. Plasterboard	13 mm
5. Exterior finish	Paint according to interior design choice

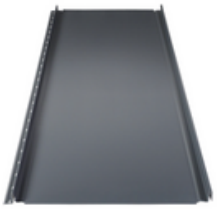
Exterior finish: Webertherm Plus Ultra SILS white-cream

ROOF

Thermal conductivity = 0.081 W/m²K



1. Roofing sheets or stone roof	Classic profile roofing sheets or smooth stone
2. Horizontal supporting rails	28 x 120, S.200 (stone roof = 45x45, s. 340 mm)
3. Ventilation gap; vertical rails	28 mm x 120 mm, S600
4. PIR insulation	50 mm; 0.022 W/m²K
5. PIR insulation	200 mm; 0.022 W/m²K
6. CLT panel	100 mm; 0.12 W/m²K
7. Interior finish	CLT covered with biocide free oil or other choice

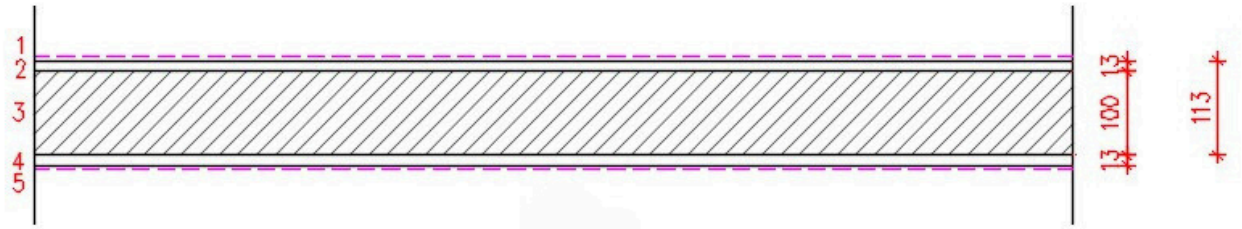


Roofing sheets

Stone roof

INTERIOR WALLS

Thermal conductivity = not applicable



1. Interior finish	Paint according to interior design choice
2. Plaster board*	13 mm
3. CLT panel	100 mm
4. Plaster board	13 mm
5. Interior finish	Paint according to interior design choice

*Plasterboard can be replaced with Fermacell: add-on option with extra cost

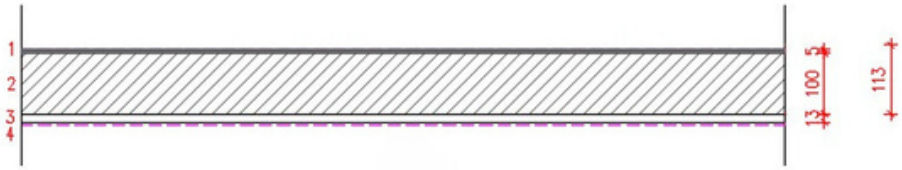
Tikkurila Harmony F157 finish

INTERMEDIATE CEILING

Thermal conductivity = not applicable

Area	13,4 m2
Maximum height	1,77 m
Flooring options	Parquet or carpet

> **The intermediate ceiling is required when the add-on LOFT is chosen**



1. Flooring	Parquet or carpet
2. CLT panel	100 mm (0.12 W/m²K)
3. Plasterboard*	13 mm
4. Interior finish	Paint according to interior design choice
Barrier	Glass or wood

*Plasterboard can be replaced with Fermacell: add-on option with extra cost

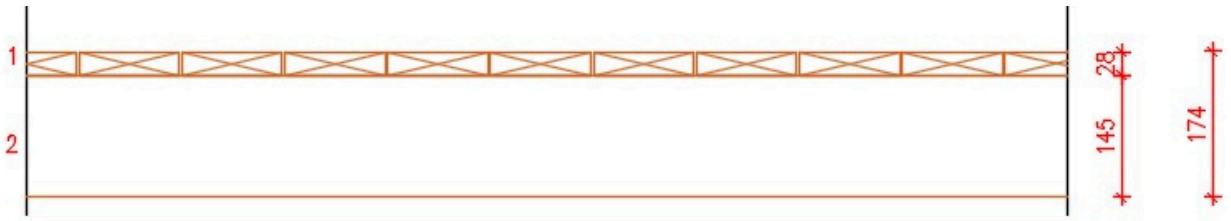
Flooring: Carpet

Flooring: Parquet

TERRACE

Thermal conductivity = Not applicable

Area (screw pile house foundation)	71.6 m2
Area (slab foundation)	Any
Stairs	In front/back or both sides
Height from ground	600 mm
Foundation	Screw piles



1. Impregnated terrace boards	28 mm x 120 mm
2. Impregnated rectangular timber	Calibrated timber 45 mm x 145 mm, S.400

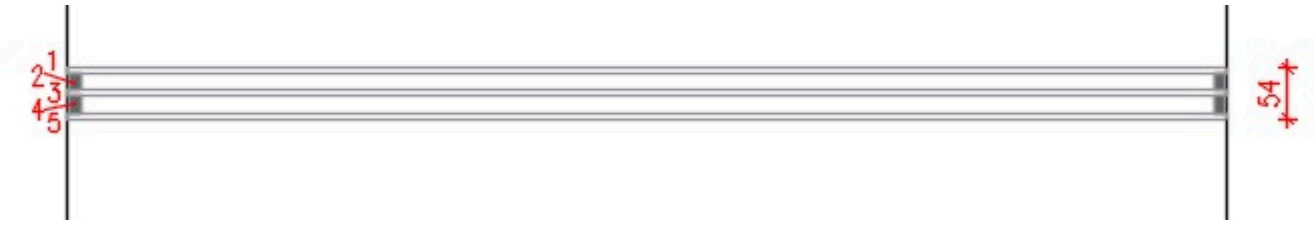
> **Terrace size for slab foundation can be chosen by the client as it is built independently on screw piles.**

71.6 m2 standard terrace
flat ground

106,3 m2 terrace tailor made and
projected based on plot specifics

GLASS PANELS

Thermal conductivity <0.8 W/m2K



Glazing	Triple glazed with Chromatech thermal spacer

WINDOWS

Therman conductivity <0.8 W/m2K

Wooden windows	IV92 German standard UNI-JET M hinge-side
Parallel sliding door	Sliding rail GU934
Glazing	Triple glazed with Chromatech thermal spacer